

## MECHANISMS OF AGEING AND DEVELOPMENT

### SUBJECT INDEX

Volume 49 (1989)

- aged mice, senescent deterioration, superoxide dismutase, *Streptococcus lactis*, 87  
aged muscle, culture, spinal cord, gelasmin, 171  
aged Peyer's patch B cells, defective IgA secretion by aged Peyer's patch B cells, 61  
ageing, strength training, growth hormone, testosterone, 159  
ageing, substantia nigra, biogenic amines, basal ganglia, HPLC, 227  
aging, beta-adrenergic receptor subtypes, heart, upregulation, 235  
aging, brain grafts, cortex cerebri, hippocampus, locus coeruleus, cerebellum, immunohistochemistry, 1  
aging, contact photosensitivity, mouse strains, suppressor cells, cyclophosphamide, 137  
aging, DNA damage, DNA repair, insects, irradiation, 259  
aging, homeostatic thymus hormone, TSH, GH, immune-neuroendocrine interactions, 119  
aging, Japanese monkeys, lipofuscin, myocardium, sexual maturation, 41  
aging, mice, hematopoiesis, stem cell, CFU-S, cell cycling, BrdU, 79  
aging, oxygen free radicals, mitochondria, superoxide radical, oxidative stress, life span, 129  
aging, polyploid cells, centrifugal elutriation, hepatocytes, leucine aminopeptidase, 271  
aging, strength training, glucose tolerance, 147  
aging, strength training, growth hormone, testosterone, 159  
antipyrine metabolism, liver microsomes, phenobarbital, 287  
basal ganglia, substantia nigra, ageing, biogenic amines, HPLC, 227  
beta-adrenergic receptor subtypes, heart, upregulation, aging, 235  
biogenic amines, substantia nigra, ageing, basal ganglia, HPLC, 227  
bone marrow grafting, thymus grafting, thymosin, immune functions, life span, mouse, 49  
bone resorption, parathyroid hormone,  $1\alpha,25$ -dihydroxyvitamin  $D_3$ , 199  
brain grafts, aging, cortex cerebri, hippocampus, locus coeruleus, cerebellum, immunohistochemistry, 1  
BrdU, aging, mice, hematopoiesis, stem cell, CFU-S, cell cycling, 79  
calcium pump, rat muscle, sarcoplasmic reticulum, enzyme aging, 105  
caloric restriction, MMTV, prolactin, growth hormone, 93  
cell cycling, aging, mice, hematopoiesis, stem cell, CFU-S, BrdU, 79  
centrifugal elutriation, aging, polyploid cells, hepatocytes, leucine aminopeptidase, 271  
cerebellum, brain grafts, aging, cortex cerebri, hippocampus, locus coeruleus, immunohistochemistry, 1  
CFU-S, aging, mice, hematopoiesis, stem cell, cell cycling, BrdU, 79  
clonal attenuation, fibroblasts, in vitro, size, model, 281  
contact photosensitivity, aging, mouse strains, suppressor cells, cyclophosphamide, 137  
cortex cerebri, brain grafts, aging, hippocampus, locus coeruleus, cerebellum, immunohistochemistry, 1  
culture, aged muscle, spinal cord, gelasmin, 171  
cyclophosphamide, aging, contact photosensitivity, mouse strains, suppressor cells, 137  
defective IgA secretion by aged Peyer's patch B cells, aged Peyer's patch B cells, 61  
development, hippocampus, enzymes, energy metabolism, 211  
 $1\alpha,25$ -dihydroxyvitamin  $D_3$ , bone resorption, parathyroid hormone, 199  
DNA damage, aging, DNA repair, insects, irradiation, 259  
DNA repair, DNA damage, aging, insects, irradiation, 259  
energy metabolism, hippocampus, enzymes, development, 211

- enzymes, hippocampus, energy metabolism, development, 211
- enzyme aging, rat muscle, calcium pump, sarcoplasmic reticulum, 105
- fibroblasts, in vitro, size, clonal attenuation, model, 281
- fluorescence, leupeptin, lipofuscin, retinal pigment epithelium, netilmicin, protease inhibition, 23
- gelasmin, aged muscle, culture, spinal cord, 171
- GH, homeostatic thymus hormone, TSH, immune-neuroendocrine interactions, aging, 119
- glucose tolerance, strength training, aging, 147
- growth hormone, MMTV, prolactin, caloric restriction, 93
- growth hormone, strength training, testosterone, aging, 159
- heart, beta-adrenergic receptor subtypes, upregulation, aging, 235
- hematopoiesis, aging, mice, stem cell, CFU-S, cell cycling, BrdU, 79
- hepatocytes, aging, polyploid cells, centrifugal elutriation, leucine aminopeptidase, 271
- hippocampus, brain grafts, aging, cortex cerebri, locus coeruleus, cerebellum, immunohistochemistry, 1
- hippocampus, enzymes, energy metabolism, development, 211
- homeostatic thymus hormone, TSH, GH, immune-neuroendocrine interactions, aging, 119
- HPLC, substantia nigra, ageing, biogenic amines, basal ganglia, 227
- immune-neuroendocrine interactions, homeostatic thymus hormone, TSH, GH, aging, 119
- immune functions, thymus grafting, bone marrow grafting, thymosin, life span, mouse, 49
- immunohistochemistry, brain grafts, aging, cortex cerebri, hippocampus, locus coeruleus, cerebellum, 1
- insects, DNA damage, aging, DNA repair, irradiation, 259
- in vitro, fibroblasts, size, clonal attenuation, model, 281
- irradiation, DNA damage, aging, DNA repair, insects, 259
- Japanese monkeys, lipofuscin, myocardium, sexual maturation, aging, 41
- leucine aminopeptidase, aging, polyploid cells, centrifugal elutriation, hepatocytes, 271
- leupeptin, lipofuscin, fluorescence, retinal pigment epithelium, netilmicin, protease inhibition, 23
- life span, oxygen free radicals, aging, mitochondria, superoxide radical, oxidative stress, 129
- life span, thymus grafting, bone marrow grafting, thymosin, immune functions, mouse, 49
- lipofuscin, Japanese monkeys, myocardium, sexual maturation, aging, 41
- lipofuscin, leupeptin, fluorescence, retinal pigment epithelium, netilmicin, protease inhibition, 23
- liver microsomes, antipyrine metabolism, phenobarbital, 287
- locus coeruleus, brain grafts, aging, cortex cerebri, hippocampus, cerebellum, immunohistochemistry, 1
- mice, aging, hematopoiesis, stem cell, CFU-S, cell cycling, BrdU, 79
- mitochondria, oxygen free radicals, aging, superoxide radical, oxidative stress, life span, 129
- MMTV, prolactin, growth hormone, caloric restriction, 93
- model, fibroblasts, in vitro, size, clonal attenuation, 281
- mouse, thymus, pineal, peptides, 245
- mouse, thymus grafting, bone marrow grafting, thymosin, immune functions, life span, 49
- mouse strains, aging, contact photosensitivity, suppressor cells, cyclophosphamide, 137
- myocardium, Japanese monkeys, lipofuscin, sexual maturation, aging, 41
- netilmicin, leupeptin, lipofuscin, fluorescence, retinal pigment epithelium, protease inhibition, 23
- oxidative stress, oxygen free radicals, aging, mitochondria, superoxide radical, life span, 129
- oxygen free radicals, aging, mitochondria, superoxide radical, oxidative stress, life span, 129
- parathyroid hormone, bone resorption,  $1\alpha,25$ -dihydroxyvitamin  $D_3$ , 199
- peptides, thymus, pineal, mouse, 245
- phenobarbital, antipyrine metabolism, liver microsomes, 287
- pineal, thymus, peptides, mouse, 245
- polyploid cells, aging, centrifugal elutriation, hepatocytes, leucine aminopeptidase, 271

- prolactin, MMTV, growth hormone, caloric restriction, 93
- protease inhibition, leupeptin, lipofuscin, fluorescence, retinal pigment epithelium, netilmicin, 23
- rat muscle, calcium pump, sarcoplasmic reticulum, enzyme aging, 105
- retinal pigment epithelium, leupeptin, lipofuscin, fluorescence, netilmicin, protease inhibition, 23
- sarcoplasmic reticulum, rat muscle, calcium pump, enzyme aging, 105
- senescent deterioration, aged mice, superoxide dismutase, *Streptococcus lactis*, 87
- sexual maturation, Japanese monkeys, lipofuscin, myocardium, aging, 41
- size, fibroblasts, in vitro, clonal attenuation, model, 281
- spinal cord, aged muscle, culture, gelasmin, 171
- stem cell, aging, mice, hematopoiesis, CFU-S, cell cycling, BrdU, 79
- strength training, glucose tolerance, aging, 147
- strength training, growth hormone, testosterone, aging, 159
- Streptococcus lactis*, aged mice, senescent deterioration, superoxide dismutase, 87
- substantia nigra, ageing, biogenic amines, basal ganglia, HPLC, 227
- superoxide dismutase, aged mice, senescent deterioration, *Streptococcus lactis*, 87
- superoxide radical, oxygen free radicals, aging, mitochondria, oxidative stress, life span, 129
- suppressor cells, aging, contact photosensitivity, mouse strains, cyclophosphamide, 137
- testosterone, strength training, growth hormone, aging, 159
- thymosin, thymus grafting, bone marrow grafting, immune functions, life span, mouse, 49
- thymus, pineal, peptides, mouse, 245
- thymus grafting, bone marrow grafting, thymosin, immune functions, life span, mouse, 49
- TSH, homeostatic thymus hormone, GH, immune-neuroendocrine interactions, aging, 119
- upregulation, beta-adrenergic receptor subtypes, heart, aging, 235

